RCA

Television User's Guide

Changing Entertainment. Again.

GUIDEplus+™ GEMSTAR

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Important Information

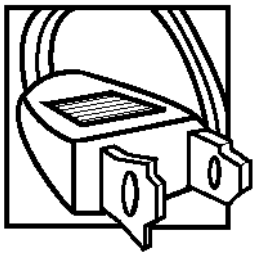
WARNING
To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

Caution: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.



Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqú au fond.

Refer to the identification/rating label located on the back panel of your product for its proper operating voltage.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Caution: Using video games or any external accessory with fixed images for extended periods of time can cause them to be permanently imprinted on the picture tube (or projection TV picture tubes). ALSO, some network/program logos, phone numbers, etc. may cause similar damage. This damage is not covered by your warranty.

Cable TV Installer: This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Product Registration

Please fill out the product registration card (packed separately) and return it immediately. For U.S. customers: Your RCA Consumer Electronics product may also be registered at www.rca.com/productregistration. Registering this product allows us to contact you if needed.

Product Information

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers. These numbers are located on the product.

Model No. _____ Serial No. _____ Purchase Date: _____

Dealer/Address/Phone: _____

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The VCR Plus+ and GUIDE Plus+ systems are manufactured under license from Gemstar Development Corporation and VCR Index Systems B.V., respectively.

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VCR required for recording.

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Things to Consider Before You Connect

Protect Against Power Surges

- Connect all components before you plug any of their power cords into the wall outlet.
- Turn off the TV and/or component before you connect or disconnect any cables.
- Make sure all antennas and cables are properly grounded. Refer to the Important Safety Instructions packed separately.

Protect Components from Overheating

- Don't block ventilation holes on any of the components. Arrange the components so that air can circulate freely.
- Don't stack components.
- If you place components in a stand, make sure you allow adequate ventilation.
- If you connect an audio receiver or amplifier, place it on the top shelf so the heated air from it won't flow around other components.

Position Cables Properly to Avoid Audio Interference

- Insert each cable firmly into the designated jack.
- If you place components above the TV, route all cables down the side of the back of the TV instead of straight down the middle of the TV.
- If your antenna uses 300-ohm twin lead cables, do not coil the cables. Also, keep the twin lead cables away from audio/video cables.

Important Stand and Base Safety Information

Choose the location for your TV carefully. Place the TV on a stand or base that is of adequate size and strength to prevent the TV from being accidentally tipped over, pushed off, or pulled off. This could cause personal injury and/or damage the TV. Refer to the Important Safety Instructions packed separately.

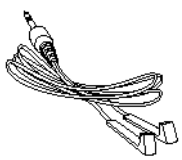
Use Indirect Light

Don't place the TV where sunlight or room lighting will be directed toward the screen. Use soft or indirect lighting.

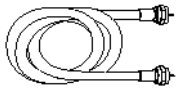
Cables Needed to Connect Components to Your TV

The pictures below show the cables needed for the connections represented in this book.

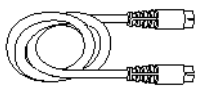
Note: Please locate the G-LINK cable (provided) when you're getting ready to set up your TV. You need to connect this cable to your TV, and to your VCR and/or cable box in order for all of the features of the program guide to work properly.



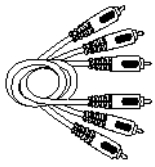
G-LINK cable



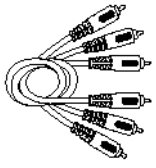
Coaxial cable



S-Video cable



Audio/Video cables



Component Video (Y, Pb, Pr) cables

Demo Pin

You must remove the Demo Pin from the G-LINK jack on the back of your TV in order for your TV to operate properly and to connect the G-LINK cable.

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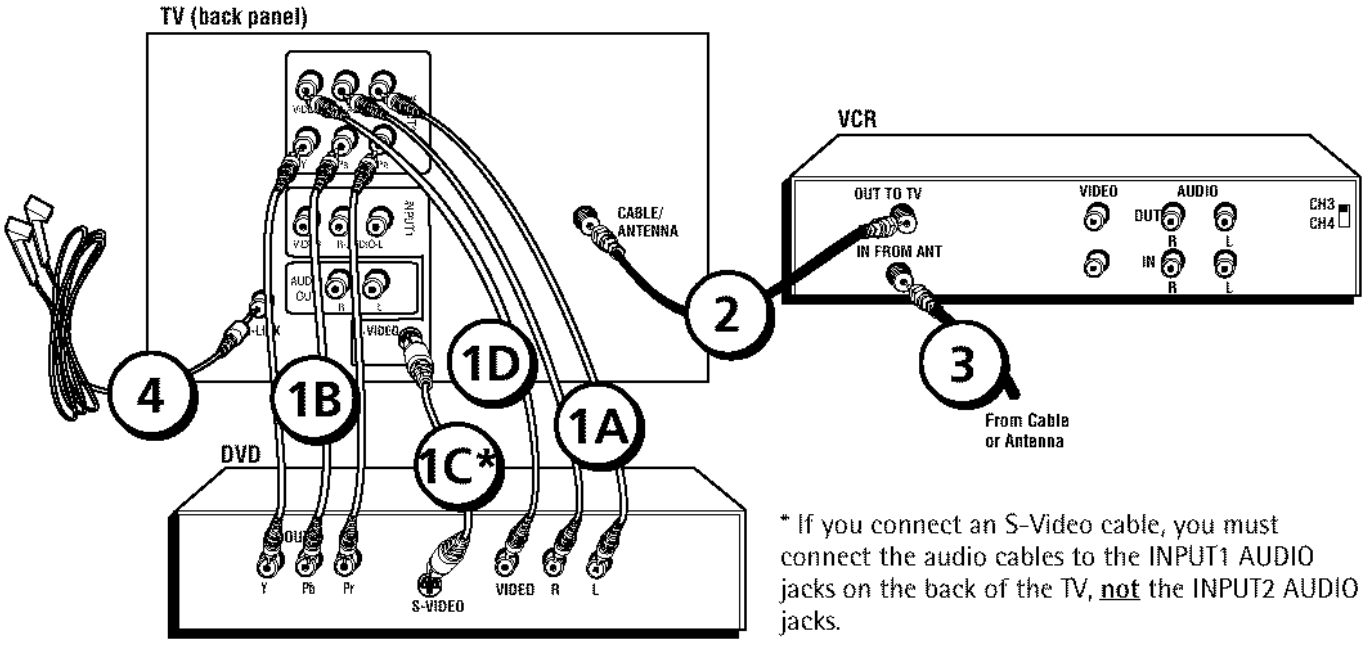

* If you connect an S-Video cable, you must connect the audio cables to the INPUT1 AUDIO jacks on the back of the TV, **not** the INPUT2 AUDIO jacks.

TV + VCR + DVD Player

1. **Connect your TV to your DVD player**

   A. Connect the audio cables (white and red) to the INPUT2 AUDIO R and L jacks on the back of the TV and to the Audio Output Jacks on the DVD player.

   B. If your DVD player has Component Output Jacks (Y, P_B, P_R), connect three video grade cables to the Y, P_B, P_R jacks on the DVD player and to the Y, P_B, P_R jacks on the back of the TV. If your DVD player doesn't have Y, P_B, P_R jacks, go to C.

   -OR-

   C. If your DVD player has an S-Video jack, connect an S-Video cable to the S-Video jack on the DVD player and the S-VIDEO jack on the back of the TV. If your DVD player doesn't have an S-Video jack, go to D.

   Note: If you connect an S-Video cable, you must connect the audio cables to the INPUT1 AUDIO R and L jacks on the back of the TV, not the INPUT2 AUDIO jacks.

   -OR-

   D. Connect a video cable (yellow) to the Video Output Jack on the DVD player and to the INPUT2 VIDEO jack on the back of the TV.

2. **Connect your TV to your VCR**

   Connect a coaxial cable to the CABLE/ANTENNA jack on your TV and to the Output Jack on your VCR (sometimes labeled OUT TO TV).

   Note: If your VCR has A/V input jacks, you can connect your TV to your VCR using audio/video cables for better quality.

3. **Connect cable or antenna to your VCR**

   Connect the coaxial cable from your cable outlet or antenna to the Input Jack on your VCR (sometimes labeled IN FROM ANTENNA or IN FROM ANT).

4. **Connect the G-LINK cable to the TV**

   If you haven't already done so, remove the Demo Pin from the G-LINK jack. Then, connect the G-LINK cable to the G-LINK jack on the TV. Next step, place one of the wands of the G-LINK cable to work with your VCR (instructions are on page 7).

Go to page 7

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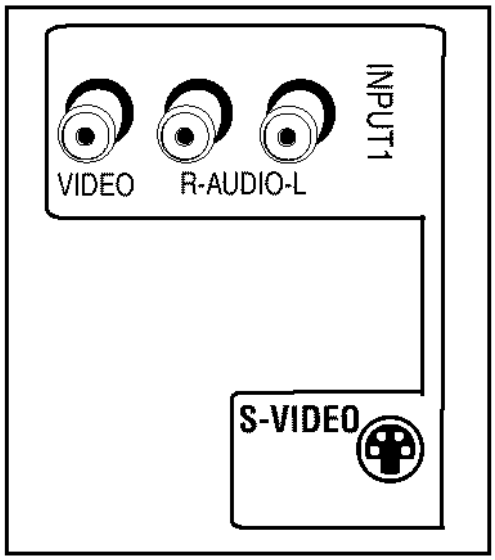
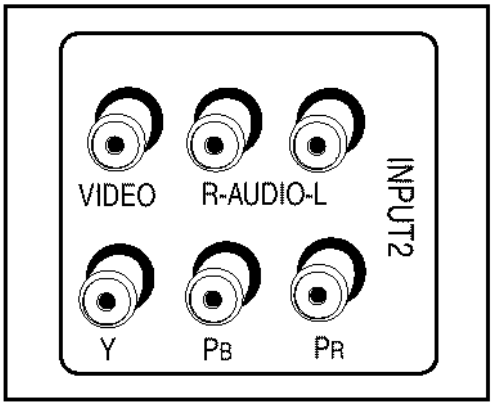
Explanation of Jacks

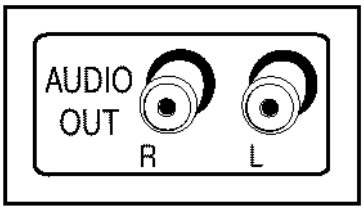
This section describes the jacks you can use to make connections. There are several ways to connect components to your TV.

G-LINK Connect the end of the G-LINK cable (provided) to this jack. The G-LINK cable enables the TV's Guide Plus+ system to interact with the cable box and/or the VCR. A picture of the G-LINK cable is on page 3.

CABLE/ANTENNA Lets you connect a coaxial cable to receive the signal from the antenna, cable or cable box.







INPUT1

VIDEO, AUDIO R and L INPUTS Lets you connect a component such as a VCR or DVD player.

- **R AUDIO** Provides right audio connection. The right audio connector is usually red.
- **L AUDIO** Provides left audio connection. The left audio connector is usually white.
- **VIDEO** Provides composite video connection. The video connector is usually yellow.
- **S-VIDEO** Provides better picture quality than the video jacks because the color part of the signal is separated from the black and white part of the picture. When using S-VIDEO, make sure to connect left and right audio cables to the INPUT1 AUDIO Input jacks.

INPUT2

VIDEO, AUDIO R and L and Y, Pb, Pr INPUTS Lets you connect a component video source, such as a DVD player.

- **Y, Pb, Pr** Provides optimum picture quality because the video is separated into three signals. Use three video-grade cables for the connection. When using Y, Pb, Pr, make sure to connect left and right audio cables to the INPUT2 AUDIO Input jacks.
- **R and L/MONO AUDIO and VIDEO** Their description is the same as INPUT1.

AUDIO OUT Lets you connect an amplifier or audio receiver for improved sound quality.

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The Front of Your TV

Front Input Jacks

The TV has one set of front audio/video input front input jacks for your convenience. These jacks are on the front of the TV behind the access door. To access the component you connected to the front of the TV, press the INPUT button on your remote until *FRNT* appears on the screen. The jacks are ideal for connecting a video game console or a camcorder.

Note: When connecting a component that only has one audio jack, such as some camcorders, use the TV's AUDIO L/MONO jack to hear the audio.

L/MONO and R AUDIO Receives audio from another component such as a VCR, camcorder, or video game console.

VIDEO Receives video from another component such as a VCR, camcorder, or video game console.

Front Panel Buttons

If you cannot locate your remote, you can use the front panel buttons of your TV to operate many of the TV's features.

MENU Brings up the Main menu. Also returns you to the previous menu. Press and hold for two seconds to access the GUIDE Plus+ system.

CH v Scans down through the current channel list. In the menu system, acts like the down arrow button on the remote control and adjusts menu controls.

CH ^ Scans up through the channel list. In the menu system, acts like the up arrow button on the remote control and adjusts menu controls.

VOL - Decreases the volume. In the menu system, acts like the left arrow button on the remote control and adjusts menu controls.

VOL + Increases the volume. In the menu system, acts like the right arrow button on the remote control and adjusts menu controls.

POWER Turns the TV on and off.

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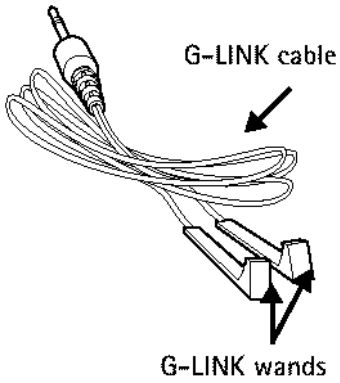


Why You Should Connect This G-LINK Cable

The G-LINK cable enables the GUIDE Plus+ system (the on-screen interactive program guide) to work with your VCR and/or cable box.

Cable Box – If your TV is connected to a cable box you must connect the G-LINK cable to receive TV program listings for your area, and to tune directly to a channel when the program guide is on your TV screen.

VCR – If your TV is connected to a VCR and you don't connect the G-LINK cable, one-touch VCR recording won't work. The other features of the guide will work properly.

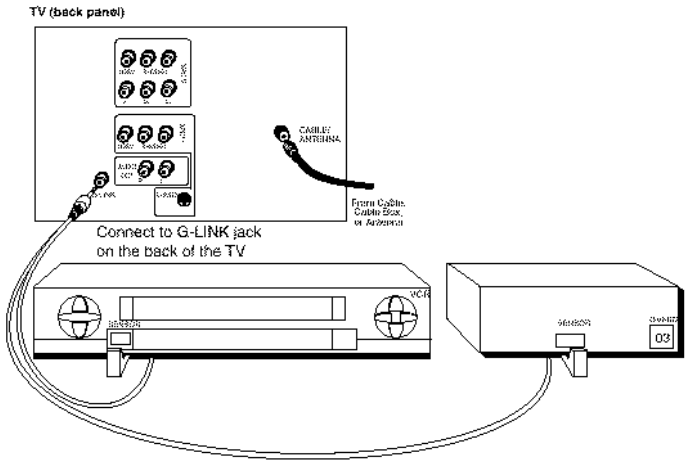
How to Find the Remote Sensor

You have to place the G-LINK wands in front of the remote sensor on the VCR and/or cable box. Some cable boxes and VCRs have the remote sensor labeled on the unit. If the remote sensor isn't labeled on your VCR and/or cable box, you need to use the remote control that came with the VCR and/or cable box to locate the sensor.

1. Turn off the VCR and/or cable box.
2. Hold the remote control (**not** the one that came with your TV, but the one that came with the cable box and/or VCR to which you're attaching the G-LINK cable) so that it is touching the front of the component.
3. Slowly move the remote control across the front of the component (VCR or cable box) while you press the power button on and off. You must press and release the power button each time you move the remote (holding down the button won't work).
4. When the component turns on, you've located the remote sensor.

Placing the G-LINK Wands

Place the G-LINK wands in front of the remote sensor on your VCR and/or cable box approximately one inch away from the remote sensor.



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Plug in the TV

Plug the end of the power cord into a grounded wall outlet. Insert the plug completely into the outlet.

Put batteries in the remote

- Remove the battery compartment cover from the back of the remote by pushing down on and sliding off the cover.
- Insert 2 fresh "AAA" batteries. Make sure the polarities (+ and -) are aligned correctly.
- Replace the cover.

How to Use the Remote Control to Complete the Initial Setup

The technical term is "Navigation"– how you move through the on-screen menus. The method is the same throughout the menu screens: highlight your choice and select it.

To highlight a menu item, press the arrow buttons on the remote to highlight one of the items listed on the screen. Use the up or down arrow button to move up or down. Use the right or left arrow button to move right or left.

To select the item that you've highlighted, press OK.

Note: Highlighted means that the menu item stands out from other menu items on the list (appears darker, brighter, or a different color).

Turn on the TV

Press TV on the remote, or press POWER on the TV's front panel.

Note: Pressing the TV button not only turns on the TV, but puts the remote into TV mode. "TV mode" means that the buttons on the remote control operate the TV's functions.

Set the Menu Language

The first part of the *SETUP* asks you to select your preferred language for the menu system.

1. Highlight your preferred language for the menu system.
2. Press OK to select that language.

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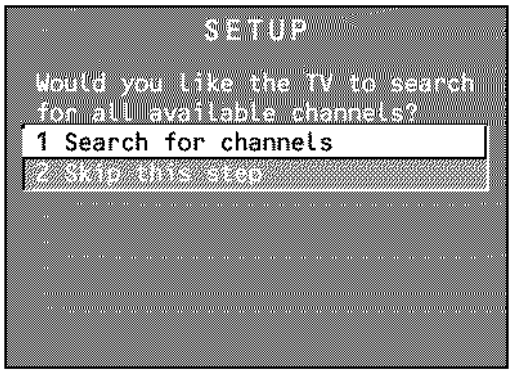


Complete Auto Channel Search

The next part of the *SETUP* asks if you want the TV to search for all available channels. This is sometimes called "auto programming."

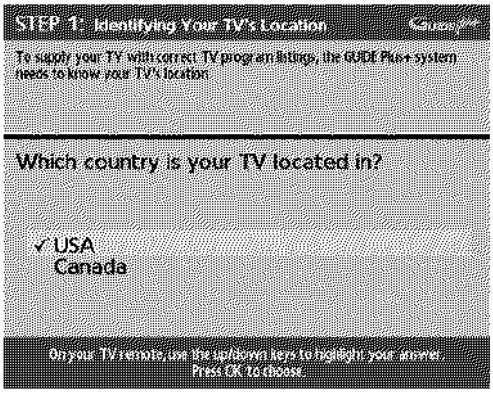
1. Press OK to tell the TV to begin searching for channels. A progress report appears on the screen.
2. When the screen on the TV tells you the search is complete, press OK (the first GUIDE Plus+ system setup screen appears).

Note: If you skip Auto Channel Search now, you can access it later through the Channel menu. See Chapter 4 for more details.

The GUIDE Plus+ System Setup

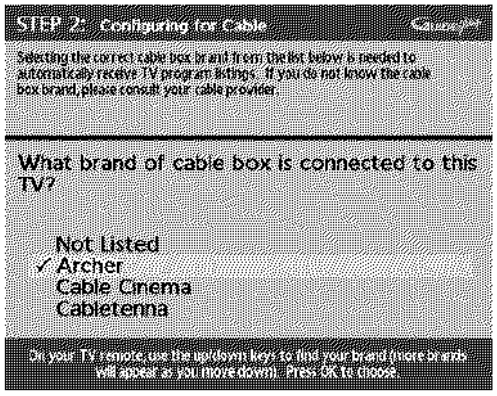
The GUIDE Plus+ system is an on-screen interactive program guide that lists what shows are on TV in your area. In order to receive program listings, you need to complete the following steps.

The G-LINK cable must be connected to the back of your TV, and the wands must be placed in front of the remote sensor on your cable box and/or VCR in order for the GUIDE Plus+ system to work (go back to page 7 for details).


STEP 1: Identifying Your TV's Location
To supply your TV with correct TV program listings, the GUIDE Plus+ system needs to know your TV's location.
Which country is your TV located in?
✓ USA
Canada
On your TV remote, use the up/down keys to highlight your answer. Press OK to choose.

Step 1: Identifying Your TV's Location

Use the arrow buttons to select country and press OK. Then use the digits or arrow buttons to enter your zip code or postal code and press OK.


STEP 2: Configuring for Cable
Selecting the correct cable box brand from the list below is needed to automatically receive TV program listings. If you do not know the cable box brand, please consult your cable provider.
What brand of cable box is connected to this TV?
Not Listed
✓ Archer
Cable Cinema
Cableterra
On your TV remote, use the up/down keys to find your brand (more brands will appear as you move down). Press OK to choose.

Step 2: Configuring for Cable

The next series of screens asks you about your cable setup.

If you use a cable box, you will need to identify the channel you tune your TV to when using the cable box, and the brand of cable box.

If your brand is not listed, choose "not listed" to run the test.

Follow the on-screen instructions to test your cable box.

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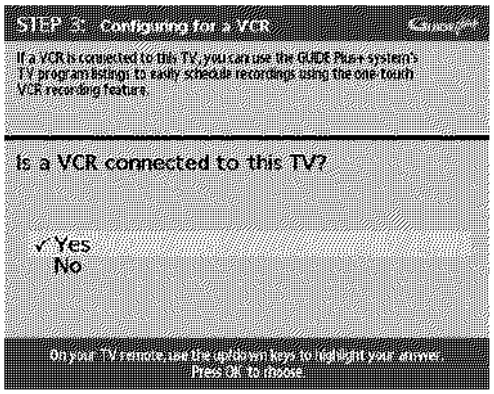
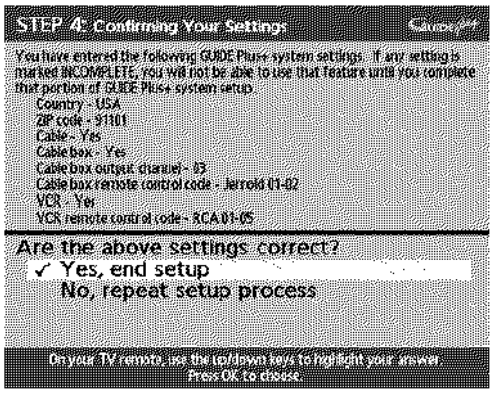

STEP 3: Configuring for a VCR
If a VCR is connected to this TV, you can use the GUIDE Plus+ system's TV program listings to easily schedule recordings using the one-touch VCR recording feature.
Is a VCR connected to this TV?
✓ Yes
No
On your TV remote, use the up/down keys to highlight your answer. Press OK to choose.


STEP 4: Confirming Your Settings
You have entered the following GUIDE Plus+ system settings. If any setting is marked INCOMPLETE, you will not be able to use that feature until you complete that portion of GUIDE Plus+ system setup.
Country - USA
ZIP code - 91101
Cable - Yes
Cable box - Yes
Cable box output channel - 03
Cable box remote control code - Jerrold 01-02
VCR - Yes
VCR remote control code - RCA 01-05
Are the above settings correct?
✓ Yes, end setup
No, repeat setup process
On your TV remote, use the up/down keys to highlight your answer. Press OK to choose.

Step 3: Configuring for a VCR

The next series of screens asks you about your VCR setup.

If you connected a VCR to the TV, you will need to follow the on-screen instructions to select your brand of VCR and run a system test so that the one-touch record feature will work properly.

Notes: If your VCR brand isn't listed, choose the Not Listed option.

Leave the cable box on to download program listings. Leave your VCR off to record programs with the Guide Plus+ One-Touch Record feature.

Step 4: Confirming Your Settings

- Check to make sure all settings are complete and correct. If all settings are complete, highlight *Yes, end setup* and press OK. If your cable box and/or VCR code testing failed, you should see *INCOMPLETE* where the cable box and VCR codes are listed. Once setup is complete, additional screens appear.

  If any settings are incomplete or incorrect, highlight *No, repeat setup process* and press OK. Follow the instructions on the screen.

- You can choose to view a demo of the GUIDE Plus+ features, which may take a few minutes to load. If you don't want to see the demo right now, press OK to watch TV.

Downloading Data

The GUIDE Plus+ system is not available until it completes its first download of program information. To ensure that your first download of data is complete, you should leave your TV off overnight. If you use a cable box, be sure to leave it on. Downloads occur several times a day. The TV must be turned off for GUIDE Plus+ system data to download.

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What to Expect

The next time you turn on your TV, the GUIDE Plus+ system will appear on the screen. The following examples explain what you might see:

- If all of the program information has been sent to your TV, the GUIDE Plus+ system appears with all of your TV program listings.
- If the program information hasn't been sent to your TV yet, an outline of the GUIDE (without TV program listings) will appear on the screen. Program information is usually sent to your TV at night.
- If the TV detected that you have multiple cable companies in your area, you will need to select a channel lineup.

Features of the GUIDE Plus+ system are explained in Chapter 3.

To clear the guide from your screen, press CLEAR or GUIDE on the remote control.

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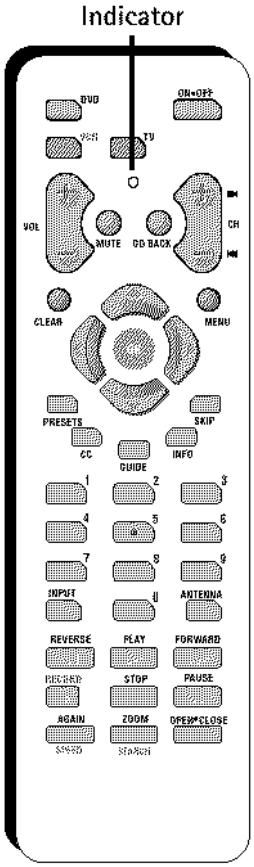
Chapter 2: Using the Remote Control



Button Descriptions for TV Mode

Arrows Used to highlight different items in the TV menu and to adjust the menu controls.

Indicator Indicates the programming mode when programming the remote to control components. Lights when you press a valid button on the remote. Flickers when a button is pressed and the batteries are low.

(0-9) Number Buttons Enter channel numbers and time settings directly through the remote control.

To enter a two-digit channel, press the two digits. To enter a three-digit channel, press and hold the first digit for two seconds until two dashes appear to the right of the number, then add the second two. Example: to tune to channel 123, press and hold 1 for two seconds, press 2, then press 3.

CC No function for your TV.

CH + or CH - Scans up or down through the current channel list. Press once to change the channel up or down; press and hold to continue changing channels.

CLEAR Removes any menu or display from the screen and returns you to normal viewing.

GO BACK Returns you to the previous channel.

GUIDE Displays the GUIDE Plus+ system; press GUIDE again to remove it from the screen.

INFO Brings up the channel banner.

INPUT Toggles through the available input sources (*VID1/SVID1, VID2/CVID2, FRNT,* and current channel).

MENU Brings up the Main menu. You can also press and hold for 2 seconds to display the GUIDE Plus+ system.

MUTE Reduces the TV's volume to its minimum level. Press again to restore the volume.

OK When in the menu system, selects highlighted items.

ON•OFF When in TV mode, turns the TV on and off. If in another mode (VCR, DVD, etc.) and programmed, will turn the component on and off.

PRESETS Picture options are reset to original factory settings.

SKIP Press once before changing channels and the TV will wait 30 seconds before returning to the original channel. Press repeatedly to add more time.

TV Turns on the TV and puts the remote in TV mode. Also displays current status.

VOL – or VOL + Decreases or increases the TV's volume.

Button Descriptions for DVD and VCR Modes

AGAIN In DVD mode, replays the last several seconds of the title you're playing.

ANTENNA In VCR mode, functions as a TV/VCR button.

DVD Puts the remote in DVD mode and, if auto tuning is enabled, will turn on the TV and tune to the correct video input channel.

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OPEN•CLOSE In DVD mode, opens or closes the DVD disc tray.

REVERSE, PLAY, FORWARD, RECORD, STOP, PAUSE If programmed, provides transport control for some remote-controllable VCRs or DVD players.

SEARCH In VCR mode, accesses Index Search feature.

SPEED In VCR mode, selects a recording speed.

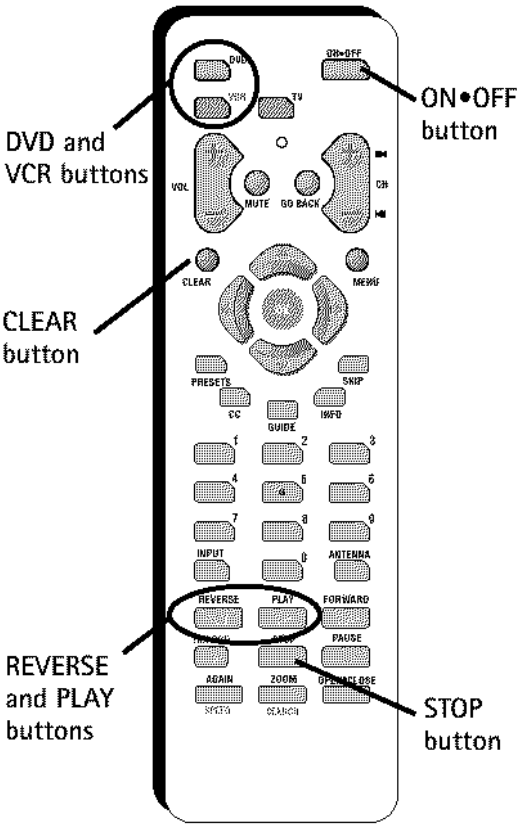
VCR Puts the remote in VCR mode and, if auto tuning is enabled, will turn on the TV and tune to the correct video input channel.

ZOOM In DVD mode, zooms in on the picture.

Using the INPUT Button

Use the INPUT button to scroll through the available video input channels and view components you have connected to the TV.

1. Make sure the component you want to view is turned ON.
2. Press INPUT to tune to an available video input source and view the component.
3. To return to the previous channel, continue pressing INPUT.



You'll use these buttons when programming the remote.

Programming the Remote to Operate Other Components

The universal remote can be programmed to operate most brands of remote controllable components. The remote is already programmed to operate most RCA, GE, and Proscan components.

Notes: The TV button can't be programmed on this remote.

The remote may not be compatible with all brands and models of components. It also may not operate all functions of the remote that came with your component.

Find Out If You Need to Program the Remote

To determine whether the universal remote needs to be programmed for your component, turn the component ON. For example, to program the remote for a VCR, turn on the VCR. Point the remote at the VCR, and press the VCR button. Then press ON•OFF or CH + (channel up) or CH – (channel down) to see if the VCR responds to the remote commands. If the component does not respond, the remote needs to be programmed.

Programming the Remote

There are two ways to program the remote control:

- automatic code search
- direct entry

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Using Automatic Code Search

The following instructions can be used to program the remote to operate each of your components. If you want to stop the automatic code search without programming any of your components, press CLEAR until the indicator on the remote turns off.

1. Turn on the component you want to operate (VCR or DVD player)
2. Press and hold the component button you want to program (VCR or DVD). While holding the component button, press and hold ON•OFF until the indicator on the remote turns on, then release both buttons.
3. Point the remote at the component. Press and release PLAY (the indicator light on the remote flashes).

   The remote is searching for the correct code to program. When the indicator stops flashing (after about 5 seconds), press PLAY again to tell the remote to search the next set of codes.

   Continue pressing PLAY until the component turns off or the indicator light on the remote turns off. If the indicator light turns off, then all the codes for that particular component have been tested once. If the component does not turn off, then the remote can't be programmed to operate that component.

   Note: Each time you press PLAY, the remote sends about 10 sets of codes. Therefore, you might have to press the PLAY button up to 20 times.

If the component you want to operate *does* turn off:

1. Press and release REVERSE, then wait 2 seconds. Repeat this step until the device turns back ON.
2. To finish, press and hold STOP until the indicator on the remote turns off.

Using Direct Entry

1. Turn on the component to be programmed.
2. Look up the brand and code number(s) for the component on the code list in this section.
3. Press and hold the component button you want to program on the remote.
4. Enter the code from the remote control code list on the following pages. If the indicator flashes, you have either entered an invalid code or the button isn't programmable.
5. Release the component button.
6. Point the remote at the component. Press ON•OFF to see if the component responds to the command. If it doesn't, try pressing the component button and then ON•OFF again.

- If you get no response, repeat these steps using the next code listed for your brand, until the component responds to the remote commands.
- If you try all the codes for your component brand and none work, try the automatic code search method. If automatic code search doesn't find the code, the remote is not compatible with your component.

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How to Use the Remote After You've Programmed It

Because this universal remote can operate several different components it uses operational modes triggered by the component buttons. For example, if you want the remote to operate the TV, you would press the TV button to put the remote into TV mode before you could operate the TV.

1. Press the appropriate component button (DVD, TV, VCR) to set the remote to operate the component.
2. Press ON•OFF to turn the component ON or OFF.
3. Use the remote buttons that apply to that component.

Note: If you keep pressing buttons and nothing happens, the remote is probably in the wrong mode. You must press the component button that matches the component you want to operate (i.e., if you want to operate the VCR, press VCR on the remote control to put the remote in VCR mode.)

Remote Control Codes

VCR Codes

Programmable for VCR button.

Admiral 2132
Adventura 2026
Aiko 2027
Aiwa 2026
Akai 2003, 2004, 2005, 2007, 2008, 2111, 2112, 2113
American High 2021
Asha 2013
Audio Dynamics 2009, 2010
Audiovox 2014
Bell & Howell 2011
Beaumark 2013
Broksonic 2012, 2025
Calix 2014
Candle 2013, 2014, 2015, 2016, 2017, 2018, 2019
Canon 2021, 2022, 2114
Capehart 2020, 2110
Carver 2062
CCE 2027, 2061
Citizen 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2027
Colortyme 2009
Colt 2061
Craig 2013, 2014, 2023, 2061
Curtis-Mathes 2000, 2009, 2013, 2016, 2018, 2021, 2022, 2024, 2115, 2131
Cybernex 2013
Daewoo 2015, 2017, 2019, 2025, 2026, 2027, 2028, 2110
Daytron 2110
DBX 2009, 2010
Dimensia 2000, 2131
Dynatech 2026
Electrohome 2014, 2029
Electrophonic 2014
Emerson 2012, 2014, 2015, 2021, 2024, 2025, 2026, 2029, 2030, 2031, 2032, 2033, 2034,2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042,2044, 2045, 2046, 2047, 2065, 2113, 2116, 2117, 2130
Fisher 2011, 2023, 2048, 2049, 2050, 2051, 2052, 2118
Fuji 2021, 2119
Funai 2026
Garrard 2026
GE 2000, 2001, 2013, 2021, 2022, 2053, 2115, 2120, 2131
Goldstar 2009, 2014, 2018, 2054
Gradiente 2026
Harley Davidson 2026
Harman Kardon 2009
Harwood 2061
Headquarter 2011
Hitachi 2055, 2056, 2057, 2107, 2111, 2120, 2122
Hi-Q 2023
Instant Replay 2021
JCL 2021
JC Penney 2009, 2010, 2011, 2013, 2014, 2021, 2022, 2055, 2056, 2058, 2059, 2060, 2107, 2118
Jensen 2055, 2056, 2111
JVC 2009, 2010, 2011, 2018, 2111, 2123
Kenwood 2009, 2010, 2011, 2016, 2018, 2111, 2123
KLH 2061
Kodak 2014, 2021
Lloyd 2026
Logik 2061
LXI 2014
Magnavox 2021, 2022, 2062, 2063, 2104, 2105, 2108, 2124
Magnin 2013
Marantz 2009, 2010, 2011, 2016, 2018, 2021, 2062, 2064
Marta 2014
Masushita 2021
Mei 2021
Memorex 2011, 2013, 2014, 2021, 2023, 2026, 2104, 2132
MGA 2029, 2065, 2113
MGN Technology 2013
Midland 2053
Minolta 2055, 2056, 2107

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VCR Codes continued

Mitsubishi ..... 2029, 2055, 2056, 2065, 2066, 2067, 2068, ... 2069, 2070, 2071, 2072, 2073, 2074, 2106, 2113, 2123
Montgomery Ward 2075, 2132
Motorola 2021, 2132
MTC 2013, 2126
Multitech 2013, 2016, 2026, 2053, 2061
NEC ..... 2009, 2010, 2011,2016, 2018, ... 2064, 2076, 2078, 2079, 2111, 2123
Nikko 2014
Noblex 2013
Olympus 2021
Optimus 2014, 2132
Optonica 2096
Panasonic 2021, 2022, 2109, 2125, 2126, 2127
Pentax 2016, 2055, 2056, 2107, 2120
Pentex Research 2018
Philco 2021, 2022, 2062, 2063
Philips 2021, 2062, 2096, 2124
Pilot 2014
Pioneer 2010, 2055, 2080, 2081, 2123
Portland 2016, 2017, 2019, 2110
Proscan 2000, 2001, 2131
Protec 2061
Pulsar 2104
Quarter 2011
Quartz 2011
Quasar 2021, 2022, 2125
RCA ..... 2000, 2001, 2003, 2013, 2021, 2055, 2056, ... 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, ... 2090, 2091, 2107, 2115, 2120, 2125, 2131, 2133
Radioshack/Realistic ..... 2011, 2013, 2014, 2021, ... 2022, 2023, 2026, 2029, 2049, 2050, 2096, 2132
Radix 2014
Randex 2014
Ricoh 2128
Runco 2104
Samsung 2005, 2013, 2015, 2033, 2053, 2112
Sanky 2104, 2132
Sansui 2010, 2092, 2111, 2123
Sanyo 2011, 2013, 2023
Scott 2012, 2015, 2025, 2032, 2038, 2065, 2093, 2116
Sears ..... 2011, 2014, 2021, 2023, 2048, ... 2049, 2050, 2051, 2055, 2056, 2107, 2118
Sharp 2017, 2029, 2094, 2095, 2096, 2097, 2132
Shintom 2004, 2056, 2061, 2098
Shogun 2013
Signature 2132
Singer 2021, 2061, 2128
Sony 2004, 2098, 2099, 2119
STS 2021, 2107
Sylvania 2021, 2022, 2026, 2062, 2063, 2065, 2124
Symphonic 2026
Tandy 2011
Tashiko 2014
Tatung 2111
TEAC 2026, 2085, 2111
Technics 2021, 2109
Teknika 2014, 2021, 2026, 2100, 2129
TMK 2013, 2024, 2047
Toshiba 2015, 2049, 2051, 2055, 2065, 2093, 2116
Totevsion 2013, 2014
Unitech 2013
Vector Research 2009, 2010, 2015, 2016
Victor 2010
Video Concepts 2009, 2010, 2015, 2016, 2113
Videosonic 2013
Wards ..... 2013, 2014, 2015, 2021, ... 2023, 2026, 2029, 2055, 2056, 2061, ... 2096, 2101, 2102, 2103, 2107, 2116, 2132
XR-1000 ..... 2021, 2026, 2061
Yamaha 2009, 2010, 2011, 2018, 2111
Zenith 2004, 2098, 2104, 2119, 2128

DVD codes

Programmable for DVD button.

Aiwa 3009
Apex 3023, 3024
GE 3000
Hitachi 3008
JVC 3002, 3010
Konka 3011, 3012
Magnavox 3003
Mitsubishi 3004
Panasonic 3013
Philips 3003, 3019, 3021, 3022
Pioneer 3005
Proscan 3000
RCA 3000, 3001
Samsung 3025
Sanyo 3014
Sony 3006, 3015, 3016
Toshiba 3007, 3017, 3020
Zenith 3018

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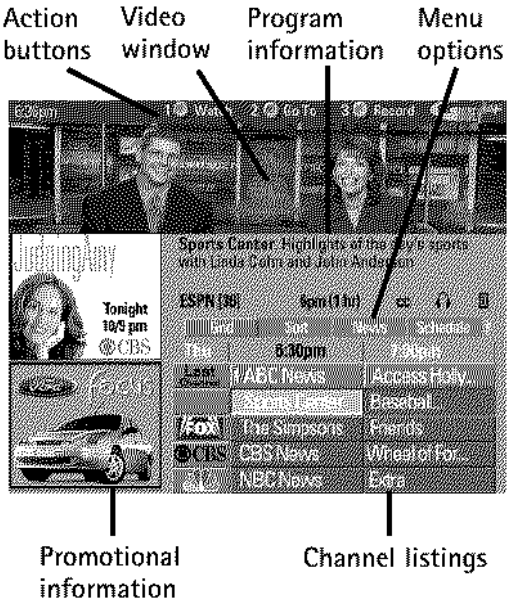

Note: The GUIDE Plus+ system screens illustrated in this book are representations of what you are likely to see. Not all channels, programs, and GUIDE Plus+ information depicted will be available in your area.

New features and options can be downloaded to the GUIDE Plus+ system, so these too are subject to change.

About the GUIDE Plus+ System

The GUIDE Plus+ system is a no-fee, interactive on-screen program guide that lists TV schedules for your area and allows your TV direct control of a cable box and VCR.

There are six sections of the GUIDE Plus+ system:

- A row of Action buttons at the top of the screen *(1, 2* and *3)*
- Video window
- Program information
- A row of menu options *(Grid, Sort, News, Schedule, Messages, Promotions, Channels, Setup)*
- Channel listings
- Promotional information

Using the GUIDE Plus+ System

To enter the GUIDE Plus+ system:

- Press GUIDE on the remote.

To exit the GUIDE Plus+ system:

- Highlight a program and press OK to exit the GUIDE Plus+ system and tune to the channel.
- Press GUIDE to exit the GUIDE Plus+ system and tune to the channel displayed in the video window.
- Press CLEAR to exit the GUIDE Plus+ system and return to the original channel.

The GUIDE Plus+ System Menu Bar

The GUIDE Plus+ system offers eight different options on the Menu bar: *Grid, Sort, News, Schedule, Messages, Promotions, Channels* and *Setup.* To access the Menu bar:

1. Press GUIDE to access the GUIDE Plus+ system.
2. Press MENU or use the up and down arrow buttons to select the Menu bar (the Grid Guide appears by default).
3. Use the left and right arrow buttons to access other menus.
4. Press OK, or MENU, or use the down arrow button to see the menu options.

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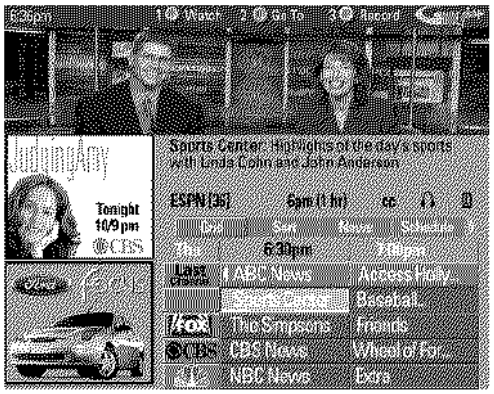

Grid Guide

The Grid Guide appears each time you enter the GUIDE Plus+ system. It displays the current programming for each channel. The current program is displayed in the video window.

- Press the up and down arrow buttons on the remote to browse channel listings and the channel up and down buttons to page through the listings. Use the right and left arrow buttons to browse future program listings.
- To tune to a channel, highlight the program you want to view in the channel listing and press OK. Press CLEAR to exit the GUIDE Plus+ system and return to the original channel. Press GUIDE to exit the GUIDE Plus+ system and tune to the channel in the video window.

Use the Grid Guide Action Buttons as described below.

Grid Guide Action Buttons

Action buttons will change according to where you are in the GUIDE Plus+ system. Be sure to look at the action bar before pressing the command numbers.

When highlighting the program, the following Action buttons appear:

- *Watch* Press 1 on the remote to place a timer in the Schedule for the TV to turn on and tune to the program highlighted in the channel listing.
- *Go To* Press 2 on the remote to bring up the direct dial box and enter the number of the channel you want.
- *Record* Press 3 on the remote to place a timer in the Schedule for the VCR to record the program highlighted in the channel listing.

Expanded Information

Press INFO on the remote to see additional program information.

Locking the Video Window

Highlight the network icon and press 1 to lock or unlock the video window.

When highlighting the Channel names (the left column on the channel listing), the following Action buttons appear:

- *Lock/Unlock* Press 1 to lock or unlock the video window to either stay at one channel as you browse the GUIDE Plus+ system (lock) or change as you browse through different channels (unlock).

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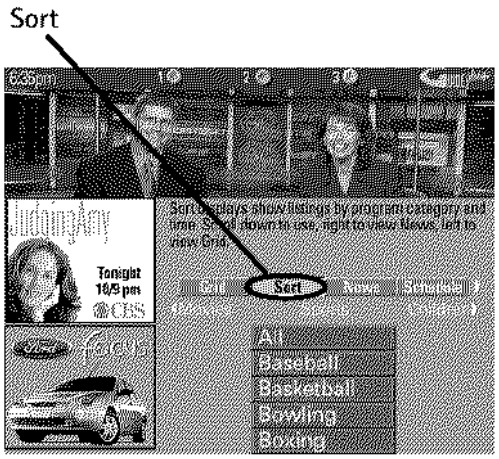


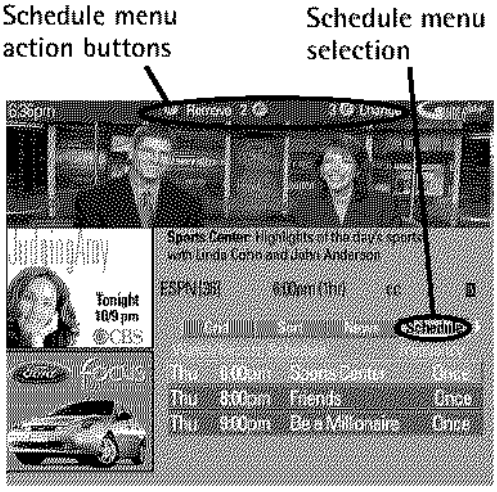
Sort

The *Sort* menu lets you browse programs by category, such as sports, movies or children's programs. Use the action buttons to set up watch timers or record timers.

News

The *News* menu lets you browse current news stories by headline.

1. Use the up and down arrow buttons to highlight a story.
   - Use the up and down arrow buttons to browse the list one story at a time.
   - Use the channel up and down arrow buttons to browse through the list one page at a time.
2. Press the right arrow button or INFO button to see full text.



Schedule

The *Schedule* menu allows you to alter timers for either viewing or recording programs.

Schedule Menu Action Buttons

When viewing the Schedule menu, these Action buttons appear:

- *Remove* Highlight the *Watch* or *Record* timer you wish to remove from the schedule and press 1 on the remote.
- *Change* Highlight the *Watch* or *Record* timer you wish to change and press 3 on the remote to toggle the frequency between the following choices:

  DAILY records the same program each day Monday through Friday.

  ONCE records only on that day.

  WEEKLY records the program each week at the same time.

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Messages

Occasionally you will receive messages regarding your GUIDE Plus+ system, as well as special programming information. You can access these messages from the *Messages* menu on the Menu bar.

Channels

You can customize the channel listing by enabling or disabling the display of certain channels. For instance, you may disable channels that you never watch. Use action buttons to remove, replace or change channels.

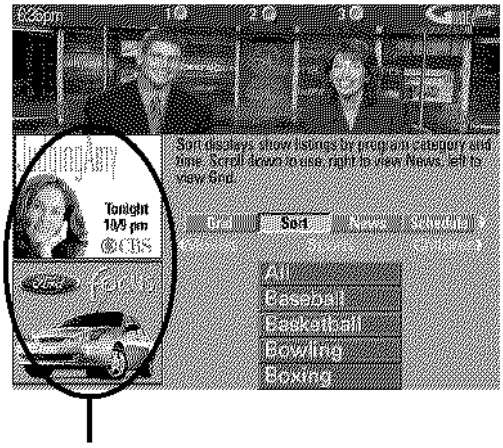
Setup

The *Setup* menu allows you to access the GUIDE Plus+ system setup information. You can do the following in the Setup Menu:

- *Change system settings* – Confirms the settings you completed in the GUIDE Plus+ system setup are correct.
- *Review options* – Displays the GUIDE Plus+ auto display options.

  On– Automatically displays the GUIDE Plus+ system when you press the ON•OFF button on the remote.

  Off– Disables the GUIDE Plus+ system from being displayed when you press the ON•OFF button on the remote.
- *View demo*– Runs the GUIDE Plus+ system demonstration.



Promotional information

Promotions and Advertising

To find out more information about a program, advertisement or special, use the left arrow button to highlight the channel listing or promotional information box. Press INFO for more information.

You can view a list of all available advertisements by selecting promotions from the menu bar.

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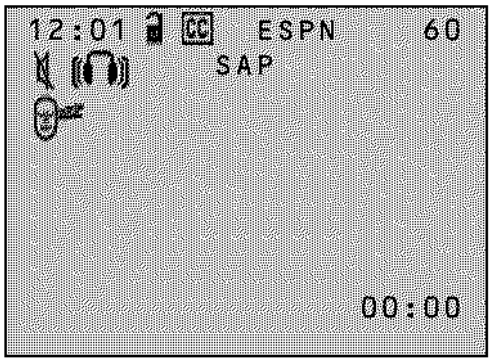

Channel Banner

There are several items that might appear on-screen when you press the TV or INFO button on the remote. This display is called the Channel Banner. The following list describes the items on the Channel Banner screen (left to right and top to bottom).

12:01 Displays the current time.

The lock is displayed to indicate when Parental Controls are locked or unlocked.

Displayed when Closed Captioning is available on the current channel.

ESPN Displays the label assigned to the current channel.

60 Displays the current channel or input channel.

Mute is displayed when you mute the audio.

Stereo is displayed when the current channel is broadcasting in Stereo.

SAP Displayed when the current channel is broadcasting SAP (Second Audio Program) information.

Displayed when the Sleep Timer has been set.

00:00 Displayed to count down time left on the commercial skip (SKIP) timer.

Why You Should Use the Auto Tuning Feature

The auto tuning feature tunes the TV to the correct channel for different components you have connected to your TV (like a VCR or DVD Player). When you set up auto tuning in the menu system you don't have to remember to change your TV to channel 3, for example, when you want to watch the tape in your VCR.

How to Set Up the Auto Tuning Feature

The way you set up the auto tuning feature in the TV's menu corresponds to the component buttons on the remote and the way you have each component connected to your TV. When you set up auto tuning, you're telling the TV what channel to tune to when you press the VCR or DVD button on the remote control.

1. Press MENU (the *TV MAIN MENU* appears).
2. Highlight *Channel* and press OK on your remote control.
3. Highlight *Auto Tuning* and press OK.
4. Choose which channel you would like to set:

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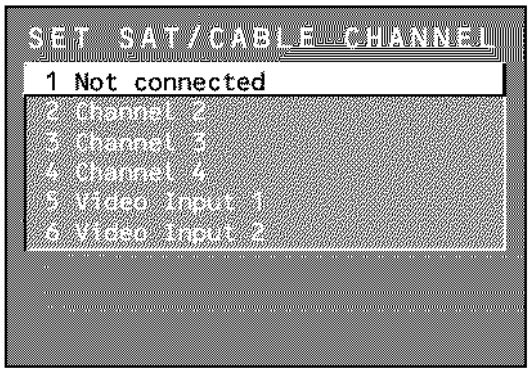
Set VCR Channel Displays a list that lets you set up the channel that the TV tunes to when you press the VCR button on the remote.

Set DVD Channel Displays a list that lets you select the channel that the TV tunes to when you press the DVD button.

Set SAT/CABLE Channel Not available with your remote control.

5. Highlight the choice that matches the way you have the component connected to this TV, and press OK.

The choices and a brief explanation follow:



Not connected Choose this if you don't have this particular component connected to the TV, or if you don't want the TV to automatically tune to the correct channel when you're using this component.

Channel 2 **(SAT/CABLE only-** Not available with your remote control).

Channel 3 Component is connected to the CABLE/ANTENNA jack on the back of the TV, and you want the TV to tune to channel 3 when you press the corresponding button on the remote. Reminder: make sure the component's Channel 3/4 switch is set to channel 3.

Channel 4 Component is connected to the CABLE/ ANTENNA jack on the back of the TV, and you want the TV to tune to channel 4 when you press the corresponding button on the remote. Reminder: make sure the component's Channel 3/4 switch is set to channel 4.

Video Input 1 Component is connected to the INPUT1 VIDEO jack on the back of the TV and you want the TV to tune to VID1 Input Channel when you press the component button.

Video Input 2 Component is connected to the INPUT2 VIDEO jack on the back of the TV and you want the TV to tune to VID2 Input Channel when you press the component button.

Note: You should choose Video Input 1 or 2 for your VCR if you connected it to the TV with audio/video cables.

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Parental Controls and V-Chip

The *Parental Controls* menu allows you to program your TV so that children cannot see certain programs, channels, or use the front panel controls. The first three choices in the *Parental Controls* menu involve software inside your TV (referred to as V-Chip) which allows you to block TV programs and movies based on violence, sex, or other content you may believe children should not view. In other words, it lets you program your TV so it won't display certain programs.

Once you block programs, you or other adults can unblock programs by entering a password.

By default, the software inside your TV is turned "off," so if you don't want to use this feature, you can just ignore it.

How V-Chip Works

V-Chip reads the program's age-based rating (TV-MA, TV-14, etc.) and content themes [(Violence (V), Adult Language (L), etc.)]. If you have blocked the rating and/or content themes that the program contains, you will receive the message *This channel is not approved for viewing.*

Broadcasters are not required to provide content themes, so programs received with no content themes will only be blocked if you block their age-based rating. You can also block out programs that have been given a rating of Not Rated, and programs that are considered unrated. The TV age-based ratings and content themes you can block follow:

TV-MA (Mature Audience Only) Specifically designed to be viewed by adults and may be unsuitable for children under 17. It contains one or more of the following content themes: crude indecent language (L), explicit sexual activity (S), or graphic violence (V).

TV-14 (Parents Strongly Cautioned) Contains some material that many parents would find unsuitable for children under 14. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following content themes: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).

TV-PG (Parental Guidance Suggested) Contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The program contains one or more of the following content themes: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).

TV-G (General Audience) Most parents would find this program suitable for all ages. It contains little or no sexual dialogue (D) or situations (S), no strong language (L), and little or no violence (V).

TV-Y7 (Directed to Children 7 years and older) Designed for children ages 7 and above. It may be more appropriate for children who have acquired the developmental skills needed to distinguish between make-believe and reality. Themes and elements in this program may include mild fantasy violence (FV) or comedic violence, or may frighten children under the age of 7.

TV-Y (All Children) Themes and elements in this program are designed for a young audience, including children from ages 2-6. It is not expected to frighten younger children.

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V-Chip TV Rating Limit

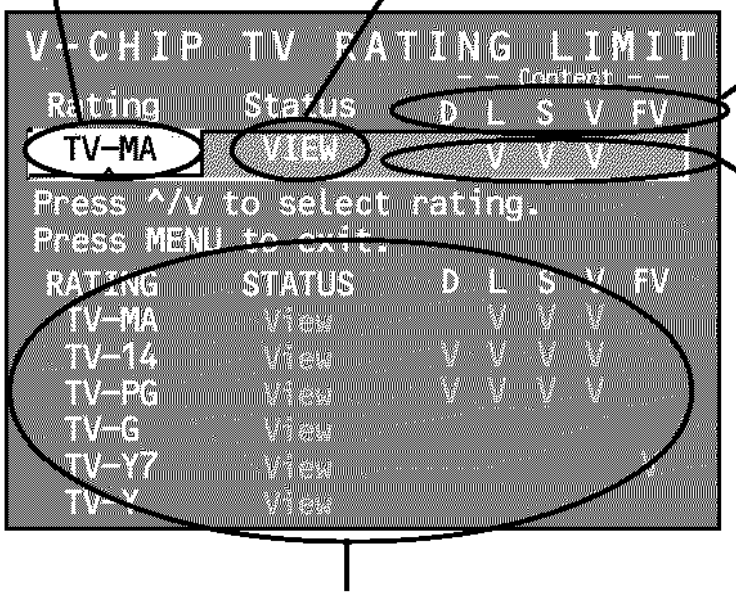
The *V-Chip TV Rating Limit* lets you decide which TV programs can and cannot be viewed. To set TV programming limits:

1. Choose *Parental Controls* from the Main menu. If Parental Controls are locked, you must enter your password. If they are not locked, you will get a message reminding you that your limits will not be effective until you lock Parental Controls.
2. Press MENU to continue.
3. Highlight and select *V-Chip TV Rating Limit*.
4. Use the arrow buttons and the OK button on your remote to change the status of a TV program rating or content theme from *View* to *Block*.

Changing the status of TV program limits is described in more detail later in the chapter.

The V-Chip Rating Screen

The following is an example of where items are located within the *TV RATING LIMIT* screen.



Rating Field
Lets you select from a list of age-based ratings you can block or view.

Rating Status Field
Lets you select whether the status of the age-based rating limit to the left is View or Block.

Content Themes
Lists the content themes you can block or view.

Content Status Fields
Lets you select which content themes to view for the selected rating, and whether the status of the content theme is currently View (V) or Block (B).

Rating Settings Area
Lets you see the current block/view state of age-based ratings and associated content. The View (V) settings are coded in green, and the Block (B) settings are coded in red.

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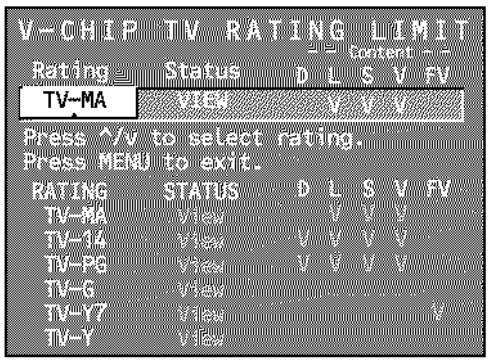
V-CHIP TV RATING LIMIT
Content
Rating Status D L S V FV
TV-MA View Y Y Y
Press ^/v to select rating.
Press MENU to exit.
RATING STATUS D L S V FV
TV-MA View Y Y Y
TV-14 View V V V V
TV-PG View V V V V
TV-G View
TV-Y7 View V
TV-Y View

Hierarchy of Age-Based Ratings	
TV-MA	*Mature Audience Only*
TV-14	*Parents Strongly Cautioned*
TV-PG	*Parental Guidance Suggested*
TV-G	*General Audience*
TV-Y7	*Directed to Children 7 years and older*
TV-Y	*All Children*

Blocking Age-Based Ratings

You can automatically block all program ratings above a specified age-based rating level.

To block programs with higher ratings:

1. Use the arrow buttons to highlight the *Rating* field.
2. Press the up/down arrow buttons on the remote to scroll to the rating corresponding with the lowest rating you do not want the child to watch.
3. Press the right arrow button to move the yellow highlight to the *Status* field.
4. Press the up or down arrow button to toggle between *View* and *Block*. The status for the rating listed to the left and all higher ratings automatically changes to *Block* (and *B*).
5. Press OK on the remote to return to the menu or exit the screen when you are finished.
6. Select *Lock Parental Controls* from the *Parental Controls* menu. Enter a password; if you have not set your password, you will be prompted to enter it again.

Viewing Age-Based Ratings

After you block age-based ratings, you can change some of the ratings back to *View*.

1. Use the up/down arrow buttons to select the rating with a status of *Block*.
2. Press the right arrow button to move the yellow highlight to the rating status field.
3. Press the up button to select *View*.

Notes: The content status fields corresponding to the unblocked rating become View as well. They and the age-based rating status are the only fields that automatically change back to View when you complete this process.

Remember to lock Parental Controls for rating limits to take effect.

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Content Themes	
D	*Sexually explicit dialogue*
L	*Adult language*
S	*Sexual situations*
V	*Violence*
FV	*Fantasy Violence*

Blocking Specific Content Themes

You can block programs based on their content. (Content is represented by the D, L, S, V, FV and TV-Y on your screen.) When you block a content theme for a particular rating, you automatically block that content theme for higher rated programs as well.

To block program content, highlight the Content Field, and then follow the same steps described for blocking age-based ratings (above).

Notes: Broadcasters are not required to provide content themes or age-based ratings. Programs received with no content themes will only be blocked if you block their age-based rating.

You must remember to lock Parental Controls for rating limits to take effect.

Viewing Specific Content Themes

If you block specific content themes, you have the option of going back and changing some of the content themes back to *(V) View*:

1. Determine the content themes you want to change to *(V) View*.
2. Use the up/down arrow buttons to scroll to the rating whose content theme you want to change to *View*.
3. Press the right arrow button to move the yellow highlight to a particular content theme status.
4. Press the up or down arrow button to change its status back to *V*.

Note: Only the content theme status corresponding to TV-14 (L) language changes to (V) View. Higher rated content themes, such as that for TV-MA language, do not change.

V-Chip Movie Rating Limit

Set movie rating limits by blocking movies rated above a specified level.

To access the *V-CHIP MOVIE RATING LIMIT* menu:

1. Press MENU on the remote control (the *TV MAIN MENU* appears).
2. Select *Parental Controls*.
3. Select *V-Chip Movie Rating Limit* .

Blocking Movie Ratings

Once you are in the Movie Ratings menu, follow the same steps described for blocking TV ratings.

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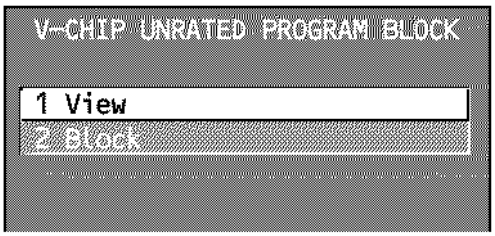
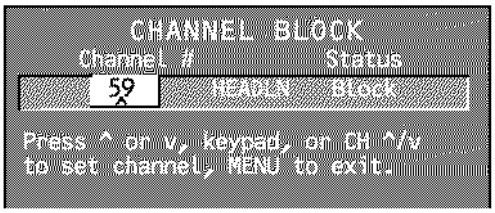


V-Chip Unrated Program Block

This option lets you decide if programs that the V-Chip recognizes as "unrated" can be viewed. "Unrated" TV programs may include news, sports, political, religious, local and weather programs, emergency bulletins, public announcements, and programs without ratings.

View All unrated programs are available.
Block All unrated programs are not available.

Note: You must remember to lock Parental Controls for rating limits to take effect.



Channel Block

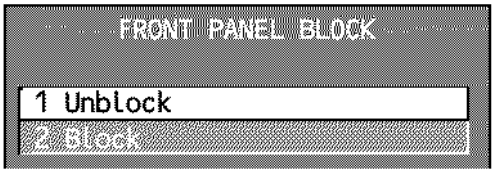
Selecting this option lets you decide what channels can be viewed.

View Makes the selected channel viewable.

Block The front panel and remote control CH (channel) buttons will tune only to channels that you have marked as *View*. The remote will still tune to the blocked channel if you use the digits to access the channel, but the channel will be blocked.

Lock parental controls after you change the status of *Channel Block*. If you don't, the channel block will not take effect.

Note: If you have a digital cable box channels 126-999 can be blocked but will not be removable from your scan list.



Front Panel Block

Selecting this option lets you block (disable) or unblock (enable) the TV's front panel. The remote still tunes to any channel. When using this as a Parental Control method, remove access to any remote that is capable of operating the television while you have the front panel blocked.

Don't forget to lock parental controls after you change the status. If you don't, the front panel block will not take effect.

Lock/Unlock Parental Controls

Selecting this option lets you lock and unlock parental controls settings using a password.

If you do not lock parental controls, none of the settings for V-Chip, Channel Block, or Front Panel Block will take effect.

If you forget your password, simultaneously press and hold MENU on the television and volume down on the remote for 3 seconds. Nothing appears on the screen, Parental Controls simply unlock and you can re-enter a password via *Lock Parental Controls.*

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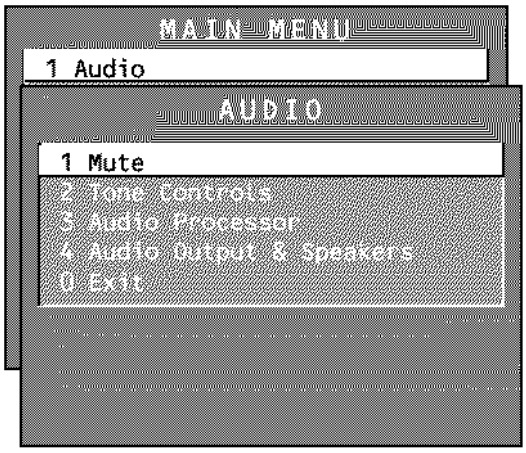

Audio Menu

Mute Press OK to reduce the TV's volume to its minimum level. Press OK again to restore the volume.

Tone Controls Displays the slider controls for adjusting the TV's treble, bass and balance.

Audio Processor Displays a choice list of available audio modes, which control the way the sound comes through your speakers.

Mono Plays the sound in mono only. Use this setting when receiving broadcasts with weak stereo signals.

Stereo Splits the incoming stereo audio signal into left and right channels. Most TV programs and recorded materials have stereo audio. The word *STEREO* appears on the TV when you tune to a program that is broadcast in stereo.

Expanded Stereo Electronically "widens" sound from stereo broadcasts, stereo VCRs, digital satellite systems, DVD players, and laserdisc players for a fuller, more spacious sound.

Sound Logic™ Stereo Reduces the annoying blasts in volume during commercial breaks, and also amplifies softer sounds in program material. Eliminates the need to constantly adjust volume control.

Second Audio Program (SAP) Plays the program's audio in a second language, if one is available. The word *SAP* appears on the TV when you tune to a program that is broadcast with SAP information. SAP audio is broadcast in mono. SAP is also used to broadcast a program's audio with descriptions of the video for the visually impaired.

Audio Output & Speakers Displays a choice list that lets you turn the TV's internal speakers on or off, and set the audio outputs to fixed-level or variable control level.

Variable Output, Speakers On This setting turns the TV's speakers on and allows variable output from the TV's audio output jacks.

Variable Output, Speakers Off This setting turns the TV's speakers off and allows variable output from the TV's audio output jacks to an external component such as a surround sound amplifier.

Fixed Output, Speakers Off This setting turns the TV's speakers off and allows fixed output from the TV's audio output jacks to an external component such as a surround sound amplifier. When you choose *Fixed Output Off*, the TV's volume control, tone controls, and mute are disabled.

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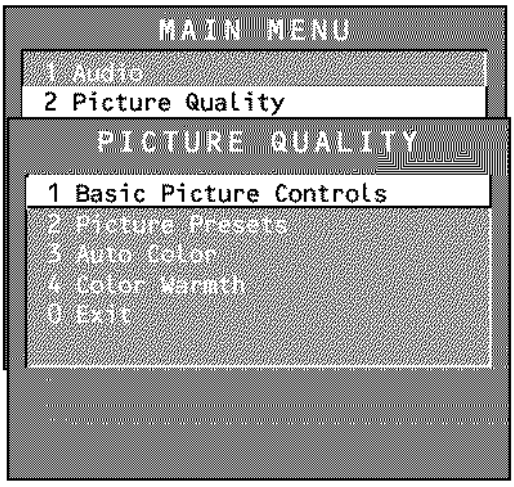

Picture Quality Menu

Basic Picture Controls Displays the five slider controls for adjusting the way the picture looks.

Contrast Adjusts the difference between the light and dark areas of the picture.

Color Adjusts the richness of the color.

Tint Adjusts the balance between the red and green levels.

Black Level Adjusts the brightness of the picture.

Sharpness Adjusts the crispness of the edges in the picture.

When exiting this menu, the *Save Personal Picture Preset* choice list appears. You can choose either *Yes* or *No*. If you save the settings as a Personal Picture Preset, the TV stores the settings so you can re-select them quickly if someone changes the settings.

Note: You can change the picture controls for each component connected to your Video, Y, P_B, P_R and S-Video jacks on the back of your TV. The next time you tune to the component, the picture changes according to the settings you created previously.

Picture Presets Displays a choice list that lets you select one of three preset picture settings: *Bright Lighting*, *Normal Lighting*, *Soft Lighting or Personal Picture Preset*. Choose the setting that is best for your viewing environment.

Auto Color Displays a choice list that lets you turn on the feature that automatically corrects the color of the picture. (This is especially useful for tracking realistic flesh tone colors as you switch from channel to channel.) Choose *On* or *Off*, depending on your preference.

Color Warmth Displays a choice list that lets you set one of three automatic color adjustments: *Cool* for a more blue palette of picture colors; *Normal*; and *Warm* for a more red palette of picture colors. The warm setting corresponds to the NTSC standard of 6500 K.

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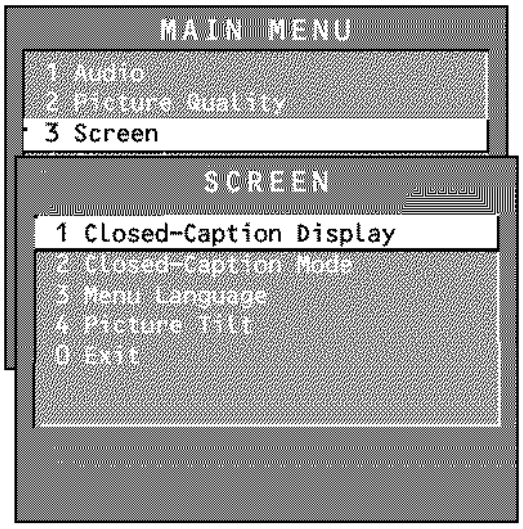

Screen Menu

Closed-Caption Display Displays a choice list that lets you choose the way closed captioning information is shown on the screen.

Off always No captioning information is displayed.

On always Captioning information is shown always, when available.

On when sound is muted Captioning information is shown, when available, whenever the TV's sound is muted. (To mute the sound, press the MUTE button.) The captioning information is not displayed when the sound is not muted.

Closed-Caption Mode Displays a choice list that lets you choose which captioning mode is used for displaying captioning information.

Menu Language Displays a choice list that lets you select your preferred language for the menus: *English*, *Spanish* or *French.*

Picture Tilt Your TV has an extra large picture tube that makes it vulnerable to the effects of the Earth's magnetic field. You may need to adjust the picture tilt.

Using Closed Captioning

Many programs are encoded with closed-captioning information, which lets you display the audio portion of a program as text on the TV screen.

Closed captioning is not available on all channels at all times. Only specific programs encoded with closed-captioning information are applicable. When a program is closed captioned, the *CC* icon is displayed in the channel banner. See Chapter 3 for more information about the channel banner.

Closed-Caption Modes

The TV offers eight closed-captioned modes, including four text modes.

To set the *Closed-Caption Mode*:

1. Select *Screen* from the Main menu.
2. Highlight *Closed-Caption Mode* and press OK (the *Closed-Caption Mode* appears).
3. Highlight your choice and press OK (the *Screen* menu appears again).

Note: The Text modes cover nearly half of the picture on the screen to display the closed-captioned text. Most broadcasters use the CC mode, which displays a few lines of captions at a time.

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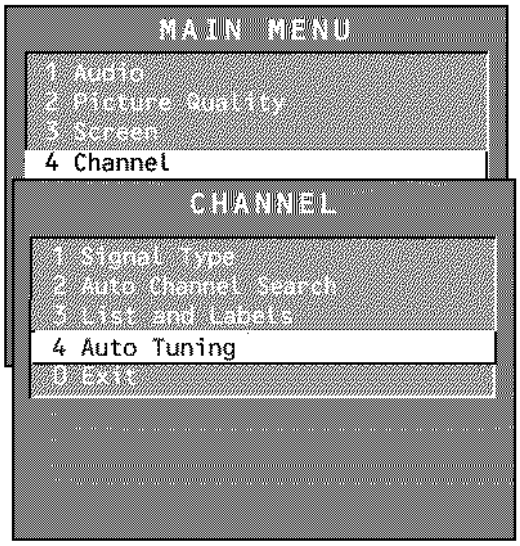
Turning off Closed-Caption

1. Select *Screen* from the Main menu.
2. Press OK to select *Closed-Caption Display.*
3. Highlight *Off Always* and press OK. The closed captioning is turned off and you go back to the *Screen* menu.



Channel Menu

Signal Type Displays a choice list that lets you select the current antenna type. This option does not appear when the GUIDE Plus+ system is set up.

UHF/VHF Antenna Choose this if you are currently using an off-air antenna for TV signals.

Cable TV Choose this if you are currently using cable or a cable box for TV signals.

Auto Channel Search Tells the TV to search automatically for all the channels available through the antenna input. When the TV finds an active channel, it places it in the Normal channel list; inactive channels (weak stations or channels with no signal at all) will be removed from the channel list. If you are using a cable box and have set up the GUIDE Plus+ system, this option does not appear.

List and Labels Displays a control panel that lets you edit your Normal channel list and choose a six-character label for each channel. Follow the on-screen directions to enter your channels and other information.

Channel # Use the up and down arrows to scroll up and down through the channels available via your antenna. You can enter the channel number directly using the number buttons.

Normal List Only the channels included in the Normal list are available when you scan up and down using channel up and down. Use the up and down arrow buttons to indicate whether the channel number indicated is included (*Yes*) or is not included (*No*) in the Normal channel list.

Channel Label Use the up and down arrow buttons to enter a six-character label for each channel. Hold the button down to scroll quickly through the characters. The TV can store up to 27 labels in memory.

Auto Tuning Displays a choice list that lets you set up the TV to automatically tune to the correct input channel when you press a component button (VCR or DVD) on the remote. Go to Chapter 3 for details about the Auto Tuning feature.

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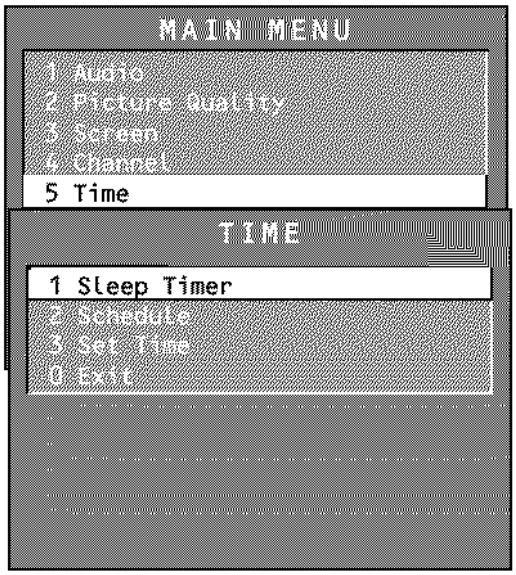

Time Menu

Sleep Timer Displays a control panel that lets you select the amount of time you want to give the TV before it shuts itself off.

Schedule Displays a control panel that lets you set up a schedule for turning the TV on and off automatically. Reminder: you must turn the schedule On. The on-screen directions guide you through the steps needed to set the schedule.

Set Time Displays a control panel that lets you enter the current time. The on-screen directions guide you through the steps needed to set the time. If your GUIDE Plus+ system is set up, it will automatically update your time and this option will not appear.

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Troubleshooting

Most problems you encounter with your TV can be corrected by consulting the following troubleshooting list.

Note for U.S. customers: If you prefer, we can provide you with the name of an Authorized Service Representative who will visit your home for a fee to install your electronic entertainment system and to instruct you in its operation. For details about this service, call 1-888-206-3359. For additional assistance while using your RCA product, please visit www.rca.com/customersupport.

TV Problems

TV won't turn on

- Press the TV button.
- Make sure the TV is plugged in.
- Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else.
- Something might be wrong with your remote control. Press the POWER button on the front of the TV. If the TV turns on, check the remote control solutions on page 35.
- The front panel controls may be locked (disabled). Use the remote control to unlock the front panel controls by selecting the *Front Panel Block* in the *Parental Controls* menu and choosing *Unblock*.

Controls don't work

- If you're using the remote control, press the TV button first to make sure the remote is in TV mode.
- The front panel controls may be locked (disabled). Use the remote control to unlock the front panel controls by selecting the *Front Panel Block* in the *Parental Controls* menu and choosing *Unblock*.
- Unplug the TV for two minutes and then plug it back in. Turn the TV on and try again.

TV turns off while playing

- Scheduled Off function may have been activated. Go to page 32 for instructions.
- Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn the TV on again. If this happens frequently, the voltage in your house may be abnormally high or low.

TV turns on unexpectedly

- Scheduled On or Watch from the GUIDE Plus+ system may have been activated. Go to page 32 or 19 for instructions.

Blank screen

- Make sure the component connected to the TV is turned on.
- Try another channel.
- Press PRESET, in case the picture controls are set too low.

When I turn on the TV an icon is moving on the screen

- Make sure you have removed the Demo Pin from the G-LINK jack on the back of your TV.

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No sound, picture okay

- Maybe sound is muted. Press the volume up button to restore sound.
- Maybe speakers are turned off. Check the *Audio Output* and *Speakers* control panel in the *Audio* menu. Go to page 28 for detailed instructions.
- If using S-VIDEO cables to connect a component, remember to also connect the component's left and right Audio Output Jacks to the TV's R-AUDIO-L INPUT1 Jacks.

Can't select certain channel

- Channel may be blocked or not approved in the *Parental Controls* menu.
- If using a VCR, make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).

Noisy stereo reception

- The station might be weak. Access the *Audio* menu, highlight *Sound Type* and then choose *Mono.*

No picture, no sound but TV is on

- Maybe the cable/air setting is set to the wrong position. Select *Signal Type* from the *Channel* menu. Go to page 31 for more information.
- The channel might be empty — change channels.
- If you're watching your VCR and it's connected with coaxial cable to the CABLE/ ANTENNA jack, tune the TV to channel 3 or 4 (whichever channel is selected on the 3/4 switch on the back of your VCR). Also check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).
- If you're trying to watch content from a component that's connected to the TV (like a DVD player or VCR), press the INPUT button on the remote control until the content appears.

Sound okay, picture poor

- Check antenna connections. Make sure all of the cables are firmly connected to the jacks.
- Try adjusting sharpness function to improve weak signals. Go to page 29 for more instructions.

Black box appears on the screen

- Closed-captioning might be on. Check the *Closed-Caption Display* control panel in the *Screen* menu. Go to page 30 for more instructions.

Every time I turn on the TV, the Guide is on the screen

- The GUIDE Plus+ system automatically appears on the screen when you use the TV button on the remote to turn on the TV. You can turn off this feature by pressing GUIDE on your remote control and then select the Menu bar. Press the right arrow button to select *Setup.* Choose *Review options* and select *OFF.*

Can't see commercial skip timer

- If closed-captioning is on, skip timer does not stay on-screen. To turn off closed-captioning, go to page 31.

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GUIDE Plus+ System Problems

GUIDE Plus+ setup won't switch to channel 9 for VCR and/or channel 02 cable box

- Make sure you have removed the Demo Pin from the G-LINK jack. Check to see if the G-LINK wands are positioned correctly in front of components' remote sensors.
- GUIDE Plus+ system control of cable box is slower than direct control of the box itself. Keep this in mind when changing channels.
- You may have an incorrect GUIDE Plus+ Channel Lineup. The guide may get out of sync with the cable provider. Use the *GUIDE Plus+ Setup* in the *GUIDE Plus+ Menu* to change the zip code to 99999. Turn the TV off for 10 minutes. Use Setup again to change the zip code back to the correct value. If asked, be sure to select the correct channel lineup from the on-screen list.

Program information doesn't download

- Review your setup information and make sure it's correct. Press MENU on the remote and select *GUIDE Plus+ Setup*. Go to page 17 for detailed instructions about the GUIDE Plus+ Setup menus.
- The TV must be off to download information. Leave your TV off overnight, for at least 10 hours, to receive the initial download for your area.
- If you're using a cable box, leave it on so you can receive program information.

Scheduled Watch or Record doesn't occur

- Check Schedule for timer conflicts. Go to page 19 for instructions.
- Make sure the wands of the G-LINK cable are placed in front of the remote sensor(s) on the component(s).
- Make sure your VCR is turned off during the time you've scheduled to record a program because the system turns the VCR on when it starts recording (if it's already on when recording starts, the system will turn it off).
- Make sure there is a tape in the VCR and that the VCR is connected properly.
- Be sure that you set up the VCR in the *GUIDE Plus+ Setup* menus. If you don't complete the *Configuring for a VCR* steps successfully, the Record option won't be available. Go to page 10 for detailed instructions.
- If a cable box is attached to your TV, make sure you set it up correctly in the *GUIDE Plus+ Setup* menus. Go to page 9 for detailed instructions.

The Remote Control Doesn't Work

- Something might be between the remote and the remote sensor on the component. Make sure there is a clear path.
- Maybe the remote isn't aimed directly at the component (TV or VCR) that you're trying to operate.
- Maybe remote is not in TV Mode. Press the TV button so remote will control TV.
- Maybe batteries in remote are weak, dead or installed incorrectly. Put new batteries in the remote. (Note, if you remove the batteries, you may have to reprogram the remote to operate other components.)
- You might need to reset the remote: remove batteries and press the number 1 button for at least 60 seconds. Release the 1 button, replace the batteries, and (if necessary) program the remote again.

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Problems with V-Chip/Parental Controls

The rating limits don't work

- You must lock the settings. Go to the *TV MAIN MENU* (press MENU on your remote), select *Parental Controls* (press 6 on your remote), select *Lock Parental Controls* (press 6 on your remote).

I don't remember my password and I want to unlock the TV

- If you forget your password, simultaneously press and hold MENU on the television and volume down on the remote for 3 seconds. Nothing appears on the screen, Parental Controls simply unlock and you can re-enter a password via *Lock Parental Controls*.

The V-Chip won't let me watch a program even though it's not rated as violent.

- Maybe the movie was given an NR (Not Rated) status. After you block movie ratings, you must set *NR* to *View* separately in order to view movies with an NR rating.

Care and Cleaning

CAUTION: Turn OFF your TV before cleaning.

You can clean the TV as required, using a soft lint-free cloth. Be sure to occasionally dust the ventilation slots in the cabinet to help assure adequate ventilation.

The TV's screen may be cleaned with a soft, lint-free cloth as well. Take care not to scratch or mar the screen. If necessary, you may use a cloth dampened with warm water. Never use strong cleaning agents, such as ammonia-based cleaners, or abrasive powder. These types of cleaners will damage the TV.

While cleaning do not spray liquid directly on the screen, or allow liquid to run down the screen and inside the TV. Also, never place drinks or vases with water on top of the TV. This could increase the risk of fire or shock hazard or damage to the TV.

Caution: Using video games or any external accessory with fixed images for extended periods of time can cause them to be permanently imprinted on the picture tube (or projection TV picture tubes). ALSO, some network/program logos, phone numbers, etc. may cause similar damage. This damage is not covered by your warranty.

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Limited Warranty

What your warranty covers:

- Defects in material or workmanship.

For how long after your purchase:

- One year from date of purchase for labor charges.
- One year from date of purchase for parts.
- Two years from date of purchase for picture tube.

The warranty period for rental units begins with the first rental or 45 days from date of shipment to the rental firm whichever comes first.

What we will do:

- Pay any Authorized RCA Television Service Center the labor charges to repair your television.
- Pay any Authorized RCA Television Service Center for the new or, at our option, rebuilt replacement parts and picture tube required to repair your television.

How you get service:

- For 20" screen size: Take your RCA television to any Authorized RCA Television Service Center and pickup when repairs are complete.
- For screen sizes larger than 20": Request home or pick up, repair and return service from any Authorized RCA Television Service Center, provided that your television is located within the geographic territory covered by an Authorized RCA Television Service Center. If not, you must take your television to the Service Center location at your own expense, or pay for the cost the Service Center may charge to transport your television to and from your home.
- To identify your nearest Authorized RCA Service Center, ask your dealer, visit www.rca.com, look in the Yellow Pages, or call 1-800-336-1900.
- Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.

What your warranty does not cover:

- Customer instruction. (Your Owner's Manual describes how to install, adjust, and operate your product. Any additional information should be obtained from your dealer.)
- Installation and related adjustments.
- Signal reception problems not caused by your television.
- Damage from misuse or neglect.
- Batteries.
- Customer replacement fuses.
- Damage from images burnt onto the screen.
- A television that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- Acts of nature, such as but not limited to lightning damage.
- A television purchased or serviced outside the U.S.A.

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Product Registration:

- Please complete and mail the Product Registration Card packed with your TV or register on-line at www.rca.com/productregistration. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

Limitation of Warranty:

- THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY DISCLAIMED. NO VERBAL OR WRITTEN INFORMATION GIVEN BY THOMSON INC., ITS AGENTS OR EMPLOYEES SHALL CREATE A GUARANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY.
- REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. THOMSON INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. THIS DISCLAIMER OF WARRANTIES AND LIMITED WARRANTY ARE GOVERNED BY THE LAWS OF THE STATE OF INDIANA. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

How state law relates to this warranty:

- Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
- This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

If you purchased your product outside the United States:

- This warranty does not apply. Contact your dealer for warranty information.

Service calls which do not involve defective materials or workmanship are not covered by this warranty. Costs of such service calls are the sole responsibility of the purchaser.

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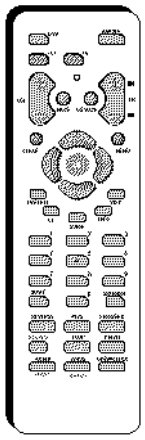
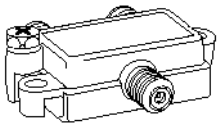


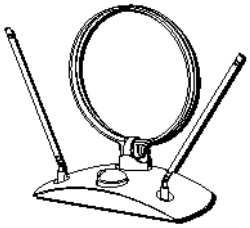
RCR311TBM1

Remote Control This is the remote control that came packed with your TV. Replacements or spares can be ordered as needed.



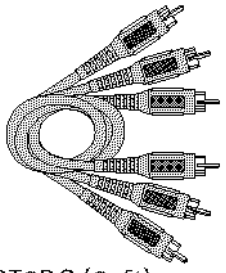
VH47

2-way Signal Splitter helps you connect to a second TV or VCR.



ANT200

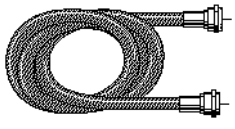
Amplified VHF/UHF/FM Antenna allows you to easily switch from the antenna signal to cable or satellite easily without disconnecting antenna.



DT6DC (6-ft)

DT12DC (12-ft)

Component Video Cables Triple cable used to connect a video source with Y, Pr, Pb jacks to the TV.



VH81 (3-ft)

VH82 (6-ft)

Screw-on Cable attaches to the round antenna connectors (called 75-ohm F-type) on the back of your VCR or TV. The ends screw onto the connectors for a secure connection.

Description	Part No.	Price
Screw-on antenna cable (3-ft)	VH81	$3.95
Screw-on antenna cable (6-ft)	VH82	$4.95
Push-on antenna cable (6-ft)	VH89	$5.95
Monaural VCR Dubbing Cable (6-ft)	VH83	$5.95
Stereo VCR Dubbing Cable (6-ft)	VH84	$9.95
S-Video Cable (6-ft)	VH976	$7.95
S-Video Cable (12-ft)	VH913	$14.95
2-way Signal Splitter	VH47	$3.95
Amplified Antenna	ANT200	$49.95
Remote Control (RCR311TBM1)	260605	$24.99
Audio•Video Adapter	228449	$4.45
Surge Protector	SCTV4000C	$49.95
Component Video Cables (6-ft)	DT6DC	$24.95
Component Video Cables (12-ft)	DT12DC	$34.95

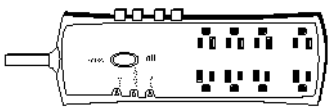
Prices are subject to change without notice.

VH83

VH913

Standard Audio/Video cable with RCA-type phono plugs.

S-Video Cable has multi-pin connectors on each end for connecting S-Video components to your TV.



SCTV4000C

Surge Protector provides eight outlets, coaxial and telephone line protection. Audible alarm for surge failure.

HOW TO ORDER

ON-LINE: Accessories may also be purchased at www.rca.com/accessories (subject to availability).
BY PHONE: To place your order by phone, have your Visa, MasterCard or Discover Card ready and call **1-800-338-0376**. Use this number only to place an order for accessory items listed on this page.

All accessories are subject to availability.
Where applicable, we will ship a superseding model.

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

Visit the RCA web site at www.rca.com

Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

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